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PROCEEDINGS OF THE ASSAY COMMISSION *for the* YEAR 1925

FEDERAL
PUBLICATION

PROCEEDINGS *of the* ASSAY COMMISSION

1925

TEST OF UNITED STATES COINAGE EXECUTED DURING THE CALENDAR YEAR 1924

ALSO

LAWS OF THE UNITED STATES RELATING TO THE ANNUAL TEST AND RULES FOR THE ORGANIZATION AND GOVERNMENT OF THE COMMISSION

WASHINGTON
GOVERNMENT PRINTING OFFICE
1925

Treasury Department
Document No. 2952,
Bureau of the Mint

II

ASSAY COMMISSION OF 1925

Hon. Charles O. Bailey, Newbury, Mass.
Mr. W. Gedney Beatty, New York, N. Y.
Mr. Samuel W. Brown, North Tonawanda, N. Y.
Hon. George K. Burgess, Washington, D. C.
Mrs. Robert E. Callan, Fort Monroe, Va.
Mrs. C. C. Cotton, Elwood, Indiana.
Mr. George L. Crawford, Cleveland, Ohio.
Mr. Nelson Franklin, Washington, D. C.
Dr. A. R. Johnston, Reevesville, S. C.
Dr. George F. Kunz, New York, N. Y.
Mr. A. W. McEldowney, Pittsburgh, Pa.
Mr. Francis G. Matson, Washington, D. C.
Mr. Richard A. Parker, Denver, Colo.
Dr. Walter T. Taggart, University of Pennsylvania.
Hon. Albert H. Vestal, House of Representatives.
Mr. T. Edgar Willson, New York, N. Y.
Hon. J. Whitaker Thompson, judge of the United States District Court for the Eastern District of Pennsylvania (ex officio).
Hon. Joseph W. McIntosh, Comptroller of the Currency (ex officio).
Mr. B. G. Shields, assayer, United States assay office, New York (ex officio).

Hon. Robert J. Grant,
Director of the Mint.

PROCEEDINGS OF THE ANNUAL ASSAY COMMISSION, 1925

In conformity with section 3547 of the Revised Statutes of the United States, the commission appointed by the President met at Philadelphia, Wednesday, the 11th day of February, 1925, to examine and test the weight and fineness of the gold and silver coins reserved by the mints at Philadelphia, San Francisco, and Denver, during the calendar year 1924.

A quorum being present, Hon. Robert J. Grant, director of the mint, declared the commission duly assembled, and, having come to order, the following letter of the Secretary of the Treasury to the President was read by the director:

OFFICE OF THE SECRETARY,
TREASURY DEPARTMENT,
Washington, January 24, 1925.

DEAR MR. PRESIDENT: I respectfully recommend that you appoint the following members of the Annual Assay Commission, which will meet at the Philadelphia Mint on the 11th of February, 1925, in accordance with section 3547 of the Revised Statutes; Mr. Charles O. Bailey, Newbury, Mass.; Mr. W. Gedney Beatty, New York City; Mr. Samuel W. Brown, North Tonawanda, N. Y.; Mr. George K. Burgess, Washington, D. C.; Mrs. Robert E. Callan, Fort Monroe, Va.; Mr. George L. Crawford, Cleveland, Ohio; Mr. Nelson Franklin, Washington, D. C.; Dr. A. R. Johnston, Reevesville, S. C.; Dr. George F. Kunz, New York City; Mrs. C. C. Cotton, Elwood, Ind.; Mr. A. W. McEldowney, Pittsburgh, Pa.; Mr. Richard Parker, Denver, Colo.; Prof. Walter T. Taggart, Philadelphia, Pa.; Hon. Albert H. Vestal, House of Representatives; Mr. T. Edgar Willson, New York City; Mr. Francis G. Matson, Washington, D. C. The Comptroller of the Currency; the judge of the District Court for the Eastern District of Pennsylvania; the assayer, United States assay office, New York, ex officio members.

The duty of the commission is to test the weight and fineness of the coins reserved by the several mints of the United States during the calendar year 1924. At all of the mints, out of every delivery of coin to the Treasury, a certain number of pieces are taken and forwarded under seal to the Philadelphia Mint for examination by the commission in order to secure due conformity in the gold and silver coins to their respective standards of fineness and weight. The law provides that the commission shall consist of the judge of the District Court for the Eastern District of Pennsylvania, the Comptroller of the Currency, the assayer of the assay office at New York, and such other persons as the President shall designate.

No compensation is provided for the members of the commission, but their actual and necessary expenses to and from Philadelphia by the most direct route and while in attendance are reimbursed.

Faithfully yours,

A. W. MELLON,
Secretary of the Treasury.

The PRESIDENT,
The White House.

THE WHITE HOUSE,
January 27, 1925.

Approved.

CALVIN COOLIDGE.

At the request of the director the roll was called and the following members answered to their names: Mrs. Callan, Mrs. Cotton; Messrs. Beatty, Brown, Burgess, Crawford, Franklin, Johnston, Matson, McEldowney, Parker, Taggart, Vestal, Willson, and Mr. Shields, ex officio member.

Hon. J. Whitaker Thompson, judge of the District Court for the Eastern District of Pennsylvania, and Hon. J. W. McIntosh, Comptroller of the Currency, ex officio members, and Dr. George F. Kunz, of New York City, who had expected to be present, were, the director explained, absent because of illness or some unforeseen circumstance. Hon. Charles O. Bailey, who was unavoidably detained, appeared later.

The only important change in mint officials during the year, the director announced, was the appointment of Mr. William T. Bartholomew as superintendent of the coining department at the Philadelphia Mint, in place of Mr. Robert Clark who died February 12, 1924, and added that to his deep regret he had also to announce the death on January 4, 1925, of Mr. George T. Morgan, the engraver, whose place, one of the most important and difficult to fill, had not yet been filled.

The director called for nomination for chairman of the commission, and upon the motion of Doctor Taggart, seconded by Doctor Johnston, Congressman Vestal was unanimously elected.

Congressman Vestal expressed his thanks for the honor conferred, stating that he had the pleasure of serving as chairman at the meeting of the commission for the last four years and had always found the work most interesting.

The director having announced that the members, who so desired, would be escorted through the institution by the superintendent, Mr. Styer, the chairman stated the commission would now recess for that purpose.

The commission was called to order at 2 o'clock p. m. and the chairman, in accordance with the rules adopted by the assay commission in 1924 for organization and government of the commission appointed the following committees:

Committee on counting.—Doctor Johnston, chairman, and Mrs. Cotton, Messrs. Bailey, Brown, Matson.

Committee on weighing.—Doctor Burgess, chairman, and Messrs. Crawford, McEldowney, Willson.

Committee on assaying.—Mr. Shields, chairman, and Mrs. Callan, Messrs. Beatty, Franklin, Parker, Taggart.

The chairman designated Mrs. Carpenter to act as secretary of the commission.

A copy of the Report of the Proceedings of the Assay Commission of 1924 having been placed on the table before each member, the reading of the minutes of that commission was dispensed with.

The following statements, submitted by the director of the mint, were also placed before each member:

Coinage executed at the mints of the United States during the Calendar year 1924

Denomination	Philadelphia Mint		San Francisco Mint		Denver Mint	
	Pieces	Value	Pieces	Value	Pieces	Value
GOLD						
Double eagles	4, 323, 500	$86, 470, 000	2, 927, 500	$58, 550, 000	3, 049, 500	$60, 990, 000
SILVER						
Dollars	11, 811, 000	11, 811, 000	1, 728, 000	1, 728, 000		
Half dollars [1]	142, 080	71, 040				
Quarter dollars	10, 920, 000	2, 730, 000	2, 860, 000	715, 000	3, 112, 000	778, 000
Dimes	24, 010, 000	2, 401, 000	7, 120, 000	712, 000	6, 810, 000	681, 000
Total silver	46, 883, 080	17, 013, 040	11, 708, 000	3, 155, 000	9, 922, 000	1, 459, 000

[1] Huguenot-Walloon coins.

Annual assay coins reserved by the mints during the calendar year 1924

Denomination	Philadelphia Mint		San Francisco Mint		Denver Mint	
	Pieces	Value	Pieces	Value	Pieces	Value
GOLD						
Double eagles	4, 324	$86, 480. 00	2, 928	$58, 560. 00	3, 051	$61, 020. 00
SILVER						
Dollars	5, 911	5, 911. 00	864	864. 00		
Halves (Huguenot)	74	37. 00				
Quarters	5, 460	1, 365. 00	1, 430	357. 50	1, 556	389. 00
Dimes	12, 005	1, 200. 50	3, 560	356. 00	3, 405	340. 50
Total	27, 774	94, 993. 50	8, 782	60, 137. 50	8, 012	61, 749. 50

The commission, in order that the committees might enter upon the discharge of their respective duties, adjourned until 3 o'clock Thursday, February 12.

Thursday, February 12

The work of the committees having been completed the commission was called to order by the chairman at 3 o'clock p. m.

The reports of the committees as submitted by their respective chairmen were accepted by the commission as satisfactory.

The committee reports in full are as follows:

COMMITTEE ON COUNTING

To the Chairman and Members of the Board of Assay Commissioners:

The committee respectfully reports that the packages containing the pieces reserved by the mints at Philadelphia, San Francisco, and Denver, for the annual trial of coins, in accordance with section 3539 of the Revised Statutes, were delivered to the committee by the superintendent of the mint at Philadelphia, and compared with the records kept by the Director of the Mint, packages from each

mint for each month's coinage and containing all denominations coined having been selected, accurately counted and found to be correct. The verification of the packages being completed, they were delivered to the committees on weighing and assaying. In the reports of those committees will be found an account of the disposition of these coins.

The table following gives the packages opened and coins counted.

Mint at Philadelphia

GOLD PIECES

Date	Double eagle	Date	Double eagle	Date	Double eagle	Date	Double eagle
1924		1924		1924		1924	
Feb. 25	5	Apr. 4	25	May 26	35	Aug. 19	30
Feb. 26	10	Apr. 7	25	May 31	25	Aug. 21	30
Feb. 27	15	Apr. 10	35	June 3	35	Aug. 25	30
Feb. 28	20	Apr. 14	25	June 6	35	Aug. 28	30
Feb. 29	20	Apr. 16	35	June 9	35	Aug. 29	30
Mar. 1	15	Apr. 19	30	June 10	7	Sept. 2	30
Mar. 3	25	Apr. 23	30	July 19	25	Sept. 3	30
Mar. 4	25	Apr. 26	30	July 21	25	Sept. 6	30
Mar. 5	25	Apr. 28	30	July 26	25	Sept. 10	30
Mar. 8	25	Apr. 29	25	July 29	25	Sept. 12	30
Mar. 15	25	Apr. 30	40	July 30	25	Sept. 15	30
Mar. 17	25	May 1	30	July 31	25	Sept. 17	30
Mar. 21	25	May 6	25	Aug. 1	30	Sept. 19	30
Mar. 24	25	May 10	25	Aug. 4	30	Sept. 23	30
Mar. 26	25	May 14	35	Aug. 7	30	Sept. 26	30
Mar. 28	30	May 17	35	Aug. 11	30	Sept. 29	30
Mar. 31	30	May 19	35	Aug. 13	35	Sept. 30	42
Apr. 1	25	May 22	35	Aug. 15	35		

SILVER PIECES

Date	Dollars	Half dollars	Quarter dollars	Dimes	Date	Dollars	Half dollars	Quarter dollars	Dimes
1924					1924				
Jan. 4				125	May 19	25			
Jan. 5			50		May 22	25			
Jan. 7			40		May 24	25			
Jan. 8				250	May 28	50			
Jan. 18				250	May 31	25			
Jan. 22				390	June 2	69			
Jan. 25	50				June 3			100	
Jan. 29	100				June 4			50	
Jan. 30	75				June 9			50	
Jan. 31	50				June 10			50	
Feb. 1	75				June 11			158	
Feb. 4	75				July 18	25			
Feb. 6	75				July 21	25			
Feb. 8	50	[1] 22			July 24	45			
Feb. 11	69				Aug. 13	25			
Feb. 27		[1] 22			Aug. 16	25			
Apr. 5	25				Aug. 20	25			
Apr. 7	50				Aug. 22	50			
Apr. 9	50				Aug. 25	50			
Apr. 10	50				Aug. 27	50			
Apr. 12	50				Aug. 29	50			
Apr. 14	50	[1] 30			Aug. 30	25			
Apr. 18	25				Sept. 3	25			
Apr. 21	51				Sept. 4	29			
Apr. 22			50		Sept. 12	25			
Apr. 25	50				Sept. 13	25			
Apr. 28	50				Sept. 15	25			
Apr. 29	50				Sept. 19	25			
Apr. 30	51				Sept. 22	25			
May 1	50				Sept. 24	25			
May 5	25				Sept. 26	25			
May 7	50				Sept. 29	50			
May 10	50				Sept. 30	50			
May 13	25				Oct. 1	50			
May 15	50				Oct. 2	50			

[1] Huguenot-Walloon Tercentenary.

Mint at Philadelphia—Continued

SILVER PIECES—Continued

Date	Dollars	Half dollars	Quarter dollars	Dimes	Date	Dollars	Half dollars	Quarter dollars	Dimes
1924					1924				
Oct. 7	50				Nov. 22	25		150	
Oct. 10	50				Nov. 24	25			
Oct. 13	50				Nov. 26	38			
Oct. 14	50			215	Nov. 28	38			
Oct. 15				125	Nov. 29				200
Oct. 16	50				Dec. 1	50			200
Oct. 17	50			125	Dec. 2				200
Oct. 21	50				Dec. 3	25			
Oct. 23				125	Dec. 5				200
Oct. 24	25		50	125	Dec. 6				200
Oct. 25				125	Dec. 8	25			
Oct. 27	25			125	Dec. 11	20		50	
Oct. 28				125	Dec. 12				300
Oct. 29	50		82	125	Dec. 13			80	
Oct. 30	25		102		Dec. 16			80	300
Oct. 31	25		150	125	Dec. 19			50	
Nov. 1	25		150	125	Dec. 20			42	
Nov. 4	25				Dec. 22	25			400
Nov. 5	19			95	Dec. 23	50			400
Nov. 6			202	45	Dec. 24	25			
Nov. 7			202		Dec. 26	25			
Nov. 8			200	45	Dec. 27	50			75
Nov. 10				45	Dec. 29	50			90
Nov. 13			202		Dec. 30	63			
Nov. 15			200	75	Dec. 31	44			
Nov. 18				100					

Mint at San Francisco

GOLD PIECES

Date	Double eagles	Date	Double eagles	Date	Double eagles	Date	Double eagles
1924		1924		1924		1924	
Feb. 21	15	Apr. 10	25	June 4	25	Sept. 3	20
Feb. 23	15	Apr. 12	20	June 5	33	Sept. 4	20
Feb. 25	15	Apr. 15	20	July 31	25	Sept. 5	20
Feb. 26	15	Apr. 16	25	Aug. 1	25	Sept. 6	10
Feb. 27	15	Apr. 17	20	Aug. 2	10	Sept. 8	25
Feb. 28	15	Apr. 21	20	Aug. 4	25	Sept. 9	10
Feb. 29	15	Apr. 25	20	Aug. 5	25	Sept. 10	25
Mar. 1	15	Apr. 28	20	Aug. 6	25	Sept. 11	20
Mar. 3	15	Apr. 29	25	Aug. 7	25	Sept. 12	25
Mar. 8	15	Apr. 30	25	Aug. 8	25	Sept. 13	10
Mar. 10	15	May 1	20	Aug. 11	25	Sept. 15	25
Mar. 11	15	May 2	20	Aug. 12	25	Sept. 16	20
Mar. 13	20	May 3	20	Aug. 13	25	Sept. 17	25
Mar. 15	15	May 5	20	Aug. 14	25	Sept. 18	15
Mar. 17	20	May 8	25	Aug. 15	25	Sept. 19	15
Mar. 20	20	May 9	20	Aug. 16	10	Sept. 20	10
Mar. 21	20	May 12	20	Aug. 18	25	Sept. 22	20
Mar. 22	20	May 14	20	Aug. 19	20	Sept. 23	25
Mar. 24	20	May 16	20	Aug. 20	25	Sept. 24	25
Mar. 25	25	May 17	20	Aug. 21	20	Sept. 25	25
Mar. 26	20	May 20	25	Aug. 22	25	Sept. 26	40
Mar. 27	25	May 22	25	Aug. 23	10	Dec. 26	15
Mar. 28	20	May 23	25	Aug. 25	25	Dec. 27	15
Mar. 29	25	May 27	25	Aug. 26	10	Dec. 29	15
Mar. 31	20	May 28	25	Aug. 27	15	Dec. 30	15
Apr. 1	20	May 29	25	Aug. 28	15	Dec. 31	50
Apr. 2	25	May 31	25	Aug. 29	15		
Apr. 5	20	June 2	25	Aug. 30	15		
Apr. 10	25	June 3	25	Sept. 2	20		

Mint at San Francisco—Continued

SILVER PIECES

Date	Dollars	Quarter dollars	Dimes	Date	Dollars	Quarter dollars	Dimes
1924				1924			
Jan. 3			75	Oct. 14	25		
Jan. 4			75	Oct. 16	25		
Jan. 5			75	Oct. 17	25		
Jan. 8			100	Oct. 20	20		
Jan. 9			100	Oct. 21		70	
Jan. 10			100	Oct. 23		70	
Jan. 14			100	Oct. 24		60	
Jan. 15			100	Oct. 25		60	
Jan. 16			100	Oct. 27		80	
Jan. 17			125	Oct. 28		48	
Jan. 18			100	Oct. 30	35		
Jan. 19			100	Nov. 6	30		
Jan. 25			100	Nov. 8	15		
Jan. 28			50	Nov. 10	30		
Jan. 31			100	Nov. 11	30		
Feb. 1			100	Nov. 13	30		
Feb. 2			100	Nov. 14	30		
Feb. 4			50	Nov. 18	30		
Feb. 5			75	Nov 20	20		
Feb. 7			75	Nov. 21	15		
Feb. 8			75	Nov. 24	14		
Feb. 9			75	Nov. 25		30	
June 3			105	Nov. 26		60	
Oct. 1			150	Nov. 28		70	
Oct. 2			100	Dec. 1		30	
Oct. 4	15			Dec. 3		40	
Oct. 6	15			Dec. 9		40	
Oct. 8	20		75	Dec. 11		50	
Oct. 9	25			Dec. 13		40	
Oct. 13	25			Dec. 17		50	

Mint at Denver

GOLD PIECES

Date	Double eagles	Date	Double eagles	Date	Double eagles	Date	Double eagles
1924		1924		1924		1924	
Jan. 8	50	Mar. 8	15	Apr. 4	20	June 18	50
Jan. 10	50	Mar. 10	20	Apr. 5	15	June 23	50
Jan. 16	50	Mar. 11	10	Apr. 7	15	Aug. 3	50
Jan. 21	50	Mar. 12	15	Apr. 8	15	Aug. 8	50
Jan. 25	50	Mar. 13	15	Apr. 10	50	Aug. 13	75
Jan. 29	50	Mar. 14	15	Apr. 14	50	Aug. 18	50
Feb. 1	50	Mar. 15	15	Apr. 18	50	Aug. 20	50
Feb. 8	50	Mar. 17	15	Apr. 22	50	Aug. 25	50
Feb. 12	50	Mar. 18	15	Apr. 25	50	Aug. 27	50
Feb. 16	50	Mar. 19	15	Apr. 29	50	Aug. 30	50
Feb. 20	25	Mar. 20	15	May 1	50	Sept. 5	50
Feb. 21	25	Mar. 21	15	May 5	50	Sept. 9	50
Feb. 23	10	Mar. 22	15	May 8	50	Sept. 12	50
Feb. 25	10	Mar. 24	15	May 12	50	Sept. 17	50
Feb. 26	20	Mar. 25	15	May 16	50	Sept. 20	50
Feb. 27	20	Mar. 26	15	May 20	50	Sept. 24	50
Feb. 28	15	Mar. 27	15	May 22	50	Sept. 26	50
Feb. 29	15	Mar. 28	15	May 27	50	Sept. 30	50
Mar. 3	10	Mar. 29	15	May 29	50	Oct. 1	9
Mar. 4	25	Mar. 31	15	June 4	50	Dec. 31	37
Mar. 5	20	Apr. 1	20	June 7	50		
Mar. 6	15	Apr. 2	15	June 10	50		
Mar. 7	15	Apr. 3	15	June 16	50		

Mint at Denver—Continued

SILVER PIECES

Date	Quarter dollars	Dimes	Date	Quarter dollars	Dimes
1924			1924		
Jan. 28		200	Nov. 14	200	
Sept. 10		250	Nov. 18		250
Sept. 25		250	Nov. 19	200	
Oct. 9	100		Nov. 25	256	
Oct. 14		250	Nov. 28		250
Oct. 15	100		Dec. 8		250
Oct. 21	100		Dec. 11		100
Oct. 29	200		Dec. 15		125
Oct. 31		250	Dec. 18		250
Nov. 4	200		Dec. 20		250
Nov. 8	200		Dec. 29		480
Nov. 10		250			

A. R. Johnston, *Chairman.*
F. G. Matson.
Charles O. Bailey.
S. W. Brown.
Stella E. Cotton.

COMMITTEE ON WEIGHING

To the Chairman and Members of the Board of Assay Commissioners:

The committee on weighing have to report that they have weighed the coins shown in the appended list and have found them to be standard within the legal tolerances. The coins were selected at random from those reserved by the mints at Philadelphia, San Francisco, and Denver.

The coins were directly weighed against a set of sealed coin weights which were accompanied by a certificate signed by the Director of the Bureau of Standards, Department of Commerce, and which gave the value of the weights in terms of United States standard. The weighings were made on a Troemner balance supplied by the Philadelphia Mint, and was tested by your committee as to the equality of the arms and as to its sensibility, which were entirely satisfactory.

Following the usual custom and for the purpose of checking the adjustment of the working standards of the mint, intercomparisons were made of the larger weights 10 to 500 ounces with the following results: 500 ounces=400 ounces+100 ounces+0.00015 ounces; 500 ounces=300 ounces+200 ounces+0.00005 ounces; 400 ounces=300 ounces+100 ounces+0.00000 ounces; 300 ounces=200 ounces+100 ounces+0.00005 ounces; 200 ounces=100 ounces+50 ounces+40 ounces+10 ounces+0.00000 ounces; 200 ounces=100 ounces+50 ounces+30 ounces+20 ounces+0.00000 ounces; 100 ounces=50 ounces+40 ounces+10 ounces+0.00005 ounces; 50 ounces=30 ounces+20 ounces+0.00000 ounces; 30 ounces=20 ounces+10 ounces+0.00005 ounces; 20 ounces=10 ounces+5 ounces+3 ounces+2 ounces+0.00020 ounces; 10 ounces=5 ounces+3 ounces+2 ounces+0.00005 ounces.

Making a comparison with the standard Troy pound weight as against 10 ounces+2 ounces, we found the agreement to be within 0.00005 ounces.

The committee also had the original official Troy pound weight of 1824 in the possession of the mint brought out for comparison with the standard Troy pound in use as a check weight, and counterweighing of one against the other showed no measurable difference in weight between them on the 3-foot balance sensitive to 0.00005 ounces.

Reserved coin weighed by the committee on weighing

MINT AT PHILADELPHIA

GOLD COINS

Date	Number of delivery	Denomination	Deviation from standard weight in grains		Date	Number of delivery	Denomination	Deviation from standard weight in grains	
			Heavy	Light				Heavy	Light
1924					1924				
Feb. 25	1	Double eagle	0.02	-------	May 17	72	Double eagle	(1)	(1)
25	1	do	.33	-------	17	72	do	-------	0.18
26	2	do	-------	0.02	31	83	do	0.23	-------
26	2	do	-------	.19	31	83	do	-------	.19
27	3	do	.10	-------	June 3	85	do	.18	-------
27	3	do	-------	.22	3	85	do	-------	.03
28	4	do	-------	.11	9	90	do	.12	-------
28	4	do	.01	-------	9	90	do	(1)	(1)
29	5	do	.13	-------	10	91	do	-------	.16
29	5	do	-------	.19	10	91	do	-------	.02
Mar. 4	8	do	-------	.01	July 19	92	do	-------	.14
4	8	do	-------	.16	19	92	do	.11	-------
5	9	do	.45	-------	30	101	do	-------	.20
5	9	do	-------	.23	30	101	do	.02	-------
8	12	do	.21	-------	31	102	do	-------	.01
8	12	do	-------	.15	31	102	do	-------	.15
15	18	do	-------	.22	Aug. 11	111	do	.16	-------
15	18	do	-------	.18	11	111	do	-------	.09
21	23	do	.08	-------	13	113	do	-------	.04
21	23	do	-------	.01	13	113	do	.07	-------
Apr. 7	37	do	.18	-------	Aug. 25	123	do	-------	.14
7	37	do	.24	-------	25	123	do	-------	.08
26	54	do	-------	.26	Sept. 2	128	do	-------	.25
26	54	do	.39	-------	2	128	do	-------	.11
May 1	58	do	.16	-------	19	143	do	.09	-------
1	58	do	.21	-------	19	143	do	-------	.27
6	62	do	.27	-------	26	149	do	-------	.01
6	62	do	.19	-------	26	149	do	.10	-------
10	66	do	.03	-------	30	152	do	.02	-------
10	66	do	.38	-------	30	152	do	-------	.12

SILVER COINS

1924					1924				
Jan. 4	1	Dime	0.19	-------	May 1	45	Dollar	-------	0.20
4	1	do	-------	0.77	1	45	do	-------	.51
5	2	Quarter dollar	-------	.44	10	52	do	0.80	-------
5	2	do	-------	.31	10	52	do	-------	.18
7	3	do	.08	-------	19	59	do	.23	-------
7	3	do	-------	.24	19	59	do	1.05	-------
8	5	Dime	.14	-------	28	67	do	.64	-------
8	5	do	.39	-------	28	67	do	.11	-------
25	9	Dollar	.97	-------	June 2	70	do	-------	.34
25	9	do	.67	-------	2	70	do	-------	.04
26	10	do	.28	-------	3	71	Quarter dollar	-------	.94
26	10	do	1.16	-------	3	71	do	.49	-------
Feb. 1	15	do	-------	.34	10	76	do	.61	-------
1	15	do	-------	.63	10	76	do	-------	.08
8	21	do	.96	-------	July 18	78	Dollar	-------	.17
8	21	do	.08	-------	18	78	do	-------	.24
8	22	Half dollar [2]	.78	-------	21	79	do	.97	-------
8	22	do	.89	-------	21	79	do	-------	.35
27	25	do	.61	-------	24	80	do	.53	-------
27	25	do	-------	1.12	24	80	do	-------	.68
Apr. 7	27	Dollar	.29	-------	Aug. 20	86	do	-------	.44
7	27	do	-------	.22	20	86	do	-------	.61
9	29	do	.16	-------	30	95	do	.18	-------
9	29	do	-------	.81	30	95	do	-------	.96
10	30	do	-------	.25	Sept. 3	96	do	-------	.33
10	30	do	.15	-------	3	96	do	-------	.88
14	34	Half dollar [2]	-------	.98	12	98	do	-------	.01
14	34	do	.03	-------	12	98	do	.11	-------
22	39	Quarter dollar	-------	.50	26	110	do	-------	.75
22	39	do	-------	.15	26	110	do	.07	-------
28	42	Dollar	.07	-------	Oct. 1	114	do	-------	.16
28	42	do	-------	.70	1	114	do	-------	.63

[1] Standard.

[2] Huguenot-Walloon Tercentenary.

Reserved coin weighed by the committee on weighing—Continued

MINT AT PHILADELPHIA—Continued

SILVER COINS—continued

Date	Number of delivery	Denomination	Deviation from standard weight in grains		Date	Number of delivery	Denomination	Deviation from standard weight in grains	
			Heavy	Light				Heavy	Light
1924					1924				
Oct. 14	128	Dime		0.09	Nov. 10	184	Dime		0.17
14	128	do		.14	15	193	Quarter dollar	0.23	
16	131	Dollar		.11	15	193	do	.25	
16	131	do	0.01		28	214	Dollar		.88
23	144	Dime		.08	28	214	do	.22	
23	144	do	.64		29	215	Dime	.69	
29	159	Quarter dollar		.71	29	215	do	.06	
29	159	do		.36	Dec. 1	217	do		.56
30	162	do		.08	1	217	do	.12	
30	162	do	.18		1	218	Dollar		.32
31	163	Dollar	.26		1	218	do		.09
31	163	do	.04		6	227	Dime		.57
Nov. 1	166	do		.08	6	227	do		.15
1	166	do		.55	8	230	Dollar		.21
1	168	Quarter dollar		.15	8	230	do	1.14	
1	168	do		.08	11	237	Quarter dollar		.12
8	183	do	.29		11	237	do		.09
8	183	do		.14	19	251	do		.17
10	184	Dime	.30		19	251	do		.23

MINT AT SAN FRANCISCO

GOLD COINS

1924					1924				
Feb. 23	2	Double eagle	0.18		June 2	86	Double eagle		0.31
23	2	do		0.08	5	89	do	0.13	
25	3	do	.07		5	89	do	.04	
25	3	do		.20	July 31	90	do	.36	
Mar. 24	27	do	.19		31	90	do	.15	
24	27	do	.11		Aug. 2	92	do	.24	
27	30	do		.05	2	92	do	.11	
27	30	do		.16	15	103	do	.16	
Apr. 2	35	do	.23		15	103	do		.26
2	35	do	.14		22	109	do	.15	
10	42	do	.14		22	109	do		.03
10	42	do	.04		Sept. 2	117	do	.15	
29	58	do	.11		2	117	do		.02
29	58	do		.04	6	121	do		.19
May 1	60	do		.14	6	121	do		.10
1	60	do		.26	11	125	do		.27
17	74	do	.06		11	125	do	.16	
17	74	do		.03	Dec. 26	139	do		.25
29	84	do	.05		26	139	do		.34
29	84	do	.06		31	143	do	.18	
June 2	86	do	.14		31	143	do	.20	

SILVER COINS

1924					1924				
Jan. 9	5	Dime	0.09		Oct. 17	51	Dollar	0.88	
9	5	do	.26		21	55	Quarter dollar		0.67
25	19	do	.49		21	55	do	.51	
25	19	do		0.08	28	61	do	.04	
Feb. 7	30	do	.77		28	61	do		.81
7	30	do		.10	Nov. 6	68	Dollar		.79
9	32	do	.18		6	68	do	.40	
9	32	do		.04	21	81	do		.91
June 3	33	do	.38		21	81	do	.41	
3	33	do		.17	25	84	Quarter dollar		.14
Oct. 1	34	do	.41		25	84	do	.65	
1	34	do		.03	28	86	do		.81
4	37	Dollar	.72		28	86	do		.50
4	37	do	.11		Dec. 3	90	do	.26	
8	42	Dime	.10		3	90	do	.14	
8	42	do		.31	17	101	do	.18	
17	51	Dollar		.63	17	101	do	.13	

Reserved coin weighed by the committee on weighing—Continued

MINT AT DENVER

GOLD COINS

Date	Number of delivery	Denomination	Deviation from standard weight in grains		Date	Number of delivery	Denomination	Deviation from standard weight in grains	
			Heavy	Light				Heavy	Light
1924					1924				
Jan. 8	1	Double eagle		0.24	May 27	65	Double eagle	0.04	
8	1	do		.07	27	65	do		0.22
29	6	do	0.14		June 10	69	do	.04	
29	6	do		.05	10	69	do		.21
Feb. 1	7	do		.13	16	70	do		.02
1	7	do	.08		16	70	do	.05	
29	18	do	.09		23	72	do		.02
29	18	do		.35	23	72	do		.06
Mar. 18	33	do		.07	Aug. 6	73	do	.04	
18	33	do		.32	6	73	do	.07	
25	39	do		.13	8	74	do	.06	
25	39	do		.13	8	74	do		.16
26	40	do	.11		25	78	do	(1)	(1)
26	40	do		.06	25	78	do		.17
Apr. 7	50	do		.20	Sept. 9	82	do		.16
7	50	do	.02		9	82	do	.14	
10	52	do		.01	17	84	do	.01	
10	52	do		.01	17	84	do	.06	
29	57	do		.03	20	85	do		.10
29	57	do	.12		20	85	do		.27
May 8	60	do		.07	Oct. 1	89	do	.12	
8	60	do		.09	1	89	do		.09
20	63	do	.11		Dec. 31	90	do	.01	
20	63	do		.03	31	90	do		.05

SILVER COINS

1924					1924				
Jan. 28	1	Dime		0.41	Nov. 8	11	Quarter dollar		0.34
28	1	do	0.03		18	14	Dime		.46
Sept. 25	3	do		.19	18	14	do		.23
25	3	do		.07	25	16	Quarter dollar		.36
Oct. 9	4	Quarter dollar		.52	25	16	do		.11
9	4	do	.33		28	17	Dime		.56
29	8	do	(1)	(1)	28	17	do		.12
29	8	do		.62	Dec. 8	18	do	0.07	
31	9	Dime		.08	8	18	do	.79	
31	9	do		.82	29	23	do	.30	
Nov. 8	11	Quarter dollar	.84		29	23	do		.30

(1) Standard.

As a matter of interest, but of no significance since all coins examined were well within the tolerance, the heaviest and lightest coins (above and below standards) for the different mints are given below:

PHILADELPHIA

	Grains
Gold coins:	
Heaviest	0.45
Lightest	.27
Silver coins:	
Heaviest	1.16
Lightest	1.12

SAN FRANCISCO

Gold coins:	
Heaviest	.36
Lightest	.34

DENVER

	Grains
Gold coins:	
Heaviest	0.14
Lightest	.35
Silver coins:	
Heaviest	.84
Lightest	.82

GEORGE K. BURGESS, *Chairman.*
GEORGE L. CRAWFORD.
A. W. MCELDOWNEY.
T. EDGAR WILLSON.

COMMITTEE ON ASSAYING

To the Chairman and Members of the Assay Commission:

Having completed the duties assigned to us in connection with the assaying of coin selected from the different reserve samples representing deliveries of all denominations of gold and silver coined during the calendar year 1924 by the mints at Philadelphia, San Francisco, and Denver, it is our pleasure to report as follows:

The assay balances, weights, and materials used in assaying were inspected by members of the committee and found to be accurate.

Since the law provides for legal variations of one one-thousandth in the fineness of gold coin and three one-thousandths in silver coin, the coinage for the calendar year 1924 has been safely within the legal limits, as shown by the following schedules:

	Fineness
Highest assays on individual gold coins:	
Philadelphia	900.4
San Francisco	900.4
Denver	900.5
Lowest assays on individual gold coins:	
Philadelphia	899.8
San Francisco	899.9
Denver	899.7
Highest assays on individual silver coins:	
Philadelphia	900.0
San Francisco	900.2
Denver	900.7
Lowest assays on individual silver coins:	
Philadelphia	898.4
San Francisco	898.6
Denver	898.4
Mass melts:	
Gold:	
Philadelphia	900.1
San Francisco	900.1
Denver	899.8
Silver:	
Philadelphia	899.5
San Francisco	899.5
Denver	898.9

Reserved coins assayed by the committee on assaying

MINT AT PHILADELPHIA

GOLD

Date	Number of delivery	Denomination	Fineness	Date	Number of delivery	Denomination	Fineness
1924				1924			
Feb. 25	1	Double eagle	900.0	May 17	72	Double eagle	900.3
Mar. 1	6	do	899.8	31	83	do	900.4
8	12	do	900.2	June 9	90	do	900.0
17	19	do	900.3	July 26	98	do	899.9
24	25	do	900.4	Aug. 4	105	do	900.3
Apr. 1	32	do	900.0	13	113	do	900.2
10	40	do	900.0	25	123	do	900.2
23	51	do	900.4	Sept. 6	132	do	900.0
May 1	58	do	900.3	17	141	do	900.2
10	66	do	900.4	30	152	do	900.0

SILVER

1924				1924			
Jan. 4	1	Dime	898.6	Sept. 30	113	Dollar	900.0
7	3	Quarter dollar	898.9	Oct. 2	115	do	899.8
26	10	Dollar	899.3	16	131	do	899.1
Feb. 1	15	do	899.3	24	145	do	898.9
8	21	do	898.9	27	152	Dime	899.1
8	22	Half dollar [1]	898.4	31	165	Quarter dollar	899.1
Apr. 9	29	Dollar	899.1	Nov. 4	172	Dollar	899.1
18	36	do	898.4	13	189	Quarter dollar	899.3
28	42	do	899.3	22	205	do	898.9
May 1	45	do	899.8	29	215	Dime	899.5
10	52	do	898.9	Dec. 3	222	Dollar	898.9
22	62	do	899.1	8	230	do	898.9
June 4	72	Quarter dollar	899.5	16	245	Quarter dollar	898.4
July 24	80	Dollar	899.3	20	254	do	898.6
Aug. 25	90	do	898.9	26	262	Dollar	898.9
Sept. 12	98	do	900.0	31	268	do	899.1
22	106	do	899.5				

[1] Huguenot-Walloon Tercentenary.

MINT AT SAN FRANCISCO

GOLD

1924				1924			
Feb. 21	1	Double eagle	900.0	May 23	79	Double eagle	900.3
28	6	do	899.9	June 2	86	do	900.1
Mar. 1	8	do	900.1	July 31	90	do	899.9
11	16	do	900.2	Aug. 6	95	do	900.0
21	25	do	899.9	15	103	do	900.1
31	33	do	900.2	Sept. 2	117	do	900.3
Apr. 8	40	do	900.2	17	130	do	900.0
29	58	do	900.2	Dec. 26	139	do	900.4
May 5	63	do	900.3	31	143	do	900.1
14	71	do	900.0				

SILVER

1924				1924			
Jan. 3	1	Dime	900.2	Oct. 21	55	Quarter dollar	898.9
17	12	do	899.5	Nov. 8	70	Dollar	899.3
Feb. 5	28	do	898.9	20	80	do	899.8
June 3	33	do	899.5	Dec. 3	90	Quarter dollar	898.6
Oct. 4	37	Dollar	899.5				

Reserved coins assayed by the committee on assaying—Continued

MINT AT DENVER

GOLD

Date	Number of delivery	Denomination	Fineness	Date	Number of delivery	Denomination	Fineness
1924				1927			
Jan. 8	1	Double eagle	899.9	May 20	63	Double eagle	900.3
21	4	do	900.2	June 4	67	do	900.4
Feb. 1	7	do	900.0	18	71	do	900.3
25	14	do	900.0	Aug. 8	74	do	900.5
Mar. 3	20	do	900.2	25	78	do	900.3
15	31	do	900.1	Sept. 5	81	do	900.1
31	44	do	900.1	17	84	do	900.4
Apr. 7	50	do	899 8	Oct. 1	89	do	899.9
25	56	do	899.8	Dec. 31	90	do	899.7
May 8	60	do	899.8				

SILVER

1924				1924			
Jan. 28	1	Dime	898.9	Nov. 8	11	Quarter dollar	898.6
Sept. 10	2	do	898.4	19	15	do	899.1
Oct. 9	4	Quarter dollar	900.7	Dec. 11	19	Dime	899.1
21	7	do	898.9	20	22	do	899.3

B. G. Shields, *Chairman.*
Walter T. Taggart.
Nelson Franklin.
W. Gedney Beatty.
Richard A. Parker.
Mrs. Robert E. Callan.

ADJOURNMENT

The chairman thanked the members of the commission for their cooperation during the session and complimented them upon the completion of the work in what he considered "record time."

In behalf of the President, the Secretary of the Treasury, and the Director of the Mint, Director Grant thanked the commissioners for their attendance and expressed his personal appreciation of the sacrifices made by the members in coming to Philadelphia to assist in the work which had been so speedily and satisfactorily completed.

There being no further business before the commission, the chairman declared it adjourned sine die.

Albert H. Vestal, *Chairman.*
Margaret K. Callan.
A. R. Johnston.
George W. Burgess.
George L. Crawford.
A. W. McEldowney.
T. Edgar Willson.
F. G. Matson.
Charles O. Bailey.
S. W. Brown.
Stella E. Cotton.
Walter T. Taggart.
Nelson Franklin.
Richard A. Parker.
W. Gedney Beatty.
B. G. Shields.

36061—25†——3

ASSAY COMMISSION MEDAL

The assay commission medal, designed and made in the engraving department of the mint at Philadelphia, presented to the members of the commission bears on the obverse side a head of the President of the United States, modeled from life by the engraver, Mr. George T. Morgan. The reverse shows the façade of the Philadelphia Mint with a Caduceus at either side. Superimposed is an eagle, displayed with a shield bearing the arms of the Treasury for a crest. The motto, United States Mint Annual Assay, is placed at the top of the medal with the date, 1925, empaneled at the base.

APPENDIX

Legal requirements concerning the weight and fineness of the coins

Denomination	As to weight			As to fineness	
	Standard weight	Deviation allowed	Lowest legal weight	Standard fineness	Deviation allowed
DOMESTIC					
Gold coins	*Grains*	*Grains*	*Grains*	*Thousandths*	*Thousandths*
Double eagle	516.0	0.50	515.50	900	1
Eagle	258.0	.50	257.50	900	1
Half eagle	129.0	.25	128.75	900	1
Quarter eagle	64.5	.25	64.25	900	1
Silver coins					
Dollar	412.5	1.5	411.00	900	3
Half dollar	192.9	1.5	191.40	900	3
Quarter dollar	96.45	1.5	94.95	900	3
Dime	38.58	1.5	37.08	900	3

LAWS GOVERNING WEIGHT AND FINENESS OF COINS OF THE UNITED STATES AND RESERVATION OF PIECES FOR ANNUAL TEST.

[R. S., Title XXXVII.—Coinage, Weights, and Measures]

STANDARD WEIGHT OF GOLD COINS

SEC. 3511. The gold coins of the United States shall be a one-dollar piece[1] which, at the standard weight of twenty-five and eight-tenths grains, shall be the unit of value; a quarter eagle, or two and a half dollar piece; a three-dollar piece;[1] a half eagle, or five-dollar piece; an eagle, or ten-dollar piece; and a double eagle, or twenty-dollar piece. And the standard weight of the gold dollar shall be twenty-five and eight-tenths grains; of the quarter eagle, or two and a half dollar piece, sixty-four and a half grains; of the three-dollar piece, seventy-seven and four-tenths grains; of the half eagle, or five-dollar piece, one hundred and twenty-nine grains; of the eagle, or ten-dollar piece, two hundred and fifty-eight grains; of the double eagle, or twenty-dollar piece, five hundred and sixteen grains.

STANDARD WEIGHT OF SILVER COINS

SEC. 3513. The silver coins of the United States shall be a trade dollar,[2] a half dollar, or fifty-cent piece, a quarter dollar, or twenty-five cent piece, a dime, or ten-cent piece; and the weight of the trade

[1] Repealed by act of Sept. 26, 1890.

[2] Authority to coin a "trade dollar" repealed by act of Mar. 3, 1887.

dollar shall be four hundred and twenty grains troy; the weight of the half dollar shall be twelve grams (grammes) and one-half of a gram (gramme); the quarter dollar and the dime shall be, respectively, one-half and one-fifth of the weight of said half dollar.

AN ACT To authorize the coinage of the standard silver dollar and to restore its legal-tender character.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That there shall be coined at the several mints of the United States silver dollars of the weight of four hundred and twelve and a half grains troy of standard silver, as provided in the act of January eighteenth, eighteen hundred and thirty-seven, on which shall be the devices and superscriptions provided by said act. * * * (Passed February 28, 1878.)

STANDARD OF FINENESS

SEC. 3514. The standard for both gold and silver coins of the United States shall be such that of one thousand parts, by weight, nine hundred shall be of pure metal and one hundred of alloy. The alloy of the silver coins shall be of copper. The alloy of the gold coins shall be of copper or of copper and silver, but the silver shall in no case exceed one-tenth of the whole alloy.

SEC. 3533. No ingots shall be used for coinage which differ from the legal standard more than the following proportions, namely: In gold ingots, one-thousandth; in silver ingots, three-thousandths. * * *

SEC. 3535. In adjusting the weights of the gold coins the following deviations shall not be exceeded in any single piece: In the double eagle and the eagle, one-half of a grain; in the half eagle, the three-dollar piece, the quarter eagle, and the one-dollar piece, one-fourth of a grain. And in weighing a number of pieces together, when delivered by the coiner to the superintendent and by the superintendent to the depositor, the deviation from the standard weight shall not exceed one-hundredth of an ounce in five thousand dollars, in double eagles, eagles, half eagles, or quarter eagles, in one thousand three-dollar pieces, and in one thousand one-dollar pieces.

SEC. 3536. In adjusting the weight of the silver coins the following deviations shall not be exceeded in any single piece: In the dollar, the half and quarter dollar, and in the dime, one and one-half grains.

COINS TO BE RESERVED FOR ANNUAL ASSAY

SEC. 3539. At every delivery of coins made by the coiner to a superintendent it shall be the duty of such superintendent, in the presence of the assayer, to take indiscriminately a certain number of pieces of each variety for the annual trial of coins, the number for gold coins

being not less than one piece for each one thousand pieces or any fractional part of one thousand pieces delivered; and for silver coins one piece for each two thousand pieces or any fractional part of two thousand pieces delivered. The pieces so taken shall be carefully sealed up in an envelope, properly labeled, stating the date of the delivery, the number and denomination of the pieces inclosed, and the amount of the delivery from which they were taken. These sealed parcels containing the reserved pieces shall be deposited in a pyx, designated for the purpose at each mint, which shall be kept under the joint care of the superintendent and assayer, and be so secured that neither can have access to its contents without the presence of the other, and the reserved pieces in their sealed envelopes from the coinage of each mint shall be transmitted quarterly to the mint at Philadelphia. A record shall also be kept at the same time of the number and denomination of the pieces so taken for the annual trial of coins and of the number and denominations of the pieces represented by them and so delivered, a copy of which record shall be transmitted quarterly to the Director of the Mint. Other pieces may, at any time, be taken for such tests as the Director of the Mint shall prescribe.

CONSTITUTION OF COMMISSION

SEC. 3547. To secure a due conformity in the gold and silver coins to their respective standards of fineness and weight, the judge of the district court for the eastern district of Pennsylvania, the Comptroller of the Currency, the assayer of the assay office at New York, and such other persons as the President shall from time to time designate, shall meet as assay commissioners at the mint in Philadelphia to examine and test, in the presence of the Director of the Mint, the fineness and weight of the coins reserved by the several mints for this purpose, on the second Wednesday in February annually, and may continue their meeting by adjournment if necessary. If a majority of the commissioners fail to attend at any time appointed for their meeting, the Director of the Mint shall call a meeting of the commissioners at such other time as he may deem convenient. If it appears by such examination and test that these coins do not differ from the standard fineness and weight by a greater quantity than is allowed by law, the trial shall be considered and reported as satisfactory. If, however, any greater deviation from the legal standard or weight appears, this fact shall be certified to the President; and if, on a view of the circumstances of the case, he shall so decide, the officers implicated in the error shall be thence-forward disqualified from holding their respective offices.

STANDARD WEIGHTS OF THE MINT

SEC. 3548. For the purpose of securing a due conformity in weight of the coins of the United States to the provisions of the laws relating to coinage, the standard troy pound of the Bureau of Standards of the United States shall be the standard troy pound of the mint of the United States, conformably to which the coinage thereof shall be regulated.

SEC. 3549. It shall be the duty of the Director of the Mint to procure for each mint and assay office, to be kept safely thereat, a series of standard weights corresponding to the standard troy pound of the Bureau of Standards of the United States, consisting of a one-pound weight and the requisite subdivisions and multiples thereof from the hundredth part of a grain to twenty-five pounds. The troy weight ordinarily employed in the transaction of such mints and assay offices shall be regulated according to the above standards at least once in every year, under the inspection of the superintendent and assayer; and the accuracy of those used at the mint at Philadelphia shall be tested annually in the presence of the assay commissioners at the time of the annual examination and test of coins.

EXTRACT FROM REGULATIONS GOVERNING MINTS

CONCERNING MAINTENANCE OF COINAGE STANDARDS

(Based on secs. 3538 and 3539, R. S.)

Record shall be kept of the kind, number, and actual weight of all coin manufactured.

Adjustment of the weight of single pieces of gold and silver coin shall be so performed as to satisfy the superintendent of the coining department that they are within the legal limits, and when a delivery of coin is made by that officer to the superintendent of the mint, the latter must, by the trial separately of not less than five pieces for each 1,000 pieces embraced in the proposed delivery, satisfy himself that the coins are within the legal limits as to weight. If these trials prove unsatisfactory, all the coins shall be weighed separately, and such as are not of legal weight shall be defaced and delivered to be melted.

Satisfactory trials by the superintendent having been made, the assay pieces shall be taken by him in the presence of the assayer, without selection or previous weighing, the number in the case of gold coins being one for each 1,000 pieces or fractional part thereof delivered, and in that of silver coins one for each 2,000 pieces or fractional part thereof delivered.

The whole number of assay pieces, without special test of weight, shall, after being protected from attrition, be sealed by the superin-

tendent in an envelope on which shall be ascribed the place of coinage, the date, number, and amount of delivery, number and denomination of the pieces inclosed, and a certificate signed by the superintendent and assayer that the facts are as stated.

The sealed parcels shall be deposited in a pyx, designated for the purpose at each mint, which shall be kept under the joint care of the superintendent and the assayer and be secured so that neither can have access to its contents without the presence of the other.

The reserved pieces from the coinage of other than the Philadelphia Mint shall, in their sealed envelopes, be transmitted quarterly by express or registered mail to the mint at Philadelphia, where they shall be carefully preserved in a pyx under the joint care of the superintendent and the assayer, for delivery to the annual assay commission.

Records of these transactions shall be kept at each mint and a statement of the number of pieces in the deliveries and of the denomination of the same be transmitted monthly to the Director of the Mint. A quarterly statement shall be forwarded to the superintendent of the mint at Philadelphia by mail; a copy shall also be inclosed in the box containing the coins and an additional copy shall be forwarded to the Director of the Mint.

From the first and two subsequent deliveries in each week of gold and silver coins of each denomination of coin delivered by the superintendent of the coining department, specimen pieces, two in number, shall be taken, certified, and inclosed by the superintendent and assayer in the same manner as above prescribed for trial by the annual assay commission, and shall be promptly forwarded to the Director of the Mint by registered mail for test by the assayer of the director's office as to their conformity in weight and fineness to the requirements of the law.

RULES ADOPTED BY ASSAY COMMISSION IN 1924 FOR ORGANIZATION AND GOVERNMENT OF THE COMMISSION

I

At the hour appointed for the meeting by the Director of the Mint, if a quorum appears to be present he shall so announce, and the judge of the District Court of the United States for the Eastern District of Pennsylvania, or, in case of his absence, such member as the commissioners present may designate, shall take the chair, and the director's clerk, unless otherwise ordered by the board, shall act as secretary.

II

The letter of the President, or the Director of the Mint, naming the commissioners who have been specially designated by the President of the United States, will be read, and the roll of the members ex officio and of the others accepting the appointment will be called.

III

A quorum being present, the secretary will read section 3547 of the Revised Statutes of June 22, 1874, under which the commission is constituted, the several sections bearing upon the duties of the commissioners, the rules for the organization and government of the board, and the minutes of the last preceding assay.

IV

The "reserved coins" having been produced by the officers in charge of them, the several packages in which they are contained will be opened in the presence of the commissioners, or of a committee for that purpose appointed, who shall report to the commission for confirmation, and the coin distributed by them in parcels with reference to their places of coinage and their metallic character, as follows:

1. Gold coins from the mint at Philadelphia.
2. Silver coins from the same.
3. Gold coins from the mint at San Francisco.
4. Silver coins from the same.
5. Gold coins from the mint at Denver.
6. Silver coins from the same.

But when it shall be made known to the board that at either of the mints there has taken place during the year a change in any of the officers who are responsible for the coinage, the coins made during the terms of the respective incumbents will be distributed in separate parcels.

V

The coins contained in each parcel having been examined and counted, the number will be compared with the number reported as "reserved," and having been verified the secretary will note the results on the minutes of the commission.

VI

The chairman will then arrange the members of the board in three committees—one to take charge of counting, one of the weighing, and the other of the assaying, with power to associate members interchangeably and to require the manipulatory aid of the officers of the mint.

VII

OF THE COUNTING

The committee on counting shall receive from the superintendent of the mint at Philadelphia the packages containing the pieces reserved by the several mints for the trial of coins, in accordance with section 3539 of the Revised Statutes. These packages shall be compared by the committee with the transcripts furnished with them and shall be properly verified. The committee shall select packages from each mint for each month's coinage and containing all denominations coined, and accurately count the coins therein. The committee on counting shall deliver to the committee on weighing and to the committee on assaying such of the reserved coins as those committees may choose for their examination.

VIII

OF THE WEIGHING

(*a*) The committee on weighing shall take from each parcel of the coins, as distributed, two or more piles—each of 10 or more pieces and embracing 2 or more denominations—and 5 or more single pieces, of 2 or more differing denominations.

(*b*) They shall arrange the piles, and the single pieces thus taken out, with the mint marks downward, in such order that the particular place of mintage shall be known only to the members of the committee.

(*c*) The piles and single pieces shall then be severally weighed, under the scrutiny of the committee, and their respective weights ascertained—the piles to the one-thousandth of an ounce, the single pieces to the eighth of a grain—and the results shall be noted with a special reference as to any that may be found without the legal limits of weight.

(*d*) The committee shall then examine the weights ordinarily employed in the mint and shall attest their accordance with the standards prescribed by law.

(*e*) The Director of the Mint shall provide for the use of the Assay Commission a set of weights of every value, from the smallest to the largest required, certified to him as being of the true standard of value as fixed by law. These weights shall be used by the Assay Commission and afterwards returned to the Director of the Mint. [Adopted by the Assay Commission of 1891.]

IX

OF THE ASSAYING

(*f*) The committee on assaying shall receive the residues of the several parcels of reserved coins; and adding to them—if it shall be necessary, but not otherwise—from the piles in the possession of the committee on weighing, shall first cause a portion of each parcel to be melted into an ingot of convenient size, and from each of the ingots so made they shall take test samples for assay.

(*g*) They shall then select a convenient number—not less than three—of single pieces of divers denominations from each parcel, from which they shall take test samples for assay.

(*h*) They shall then arrange all the test samples in such order as shall be known only to the members of the committee, and in that order such samples shall be assayed, the silver first and the gold afterwards.

(*i*) Should the operations of the assay be not consummated before the adjournment of the board for the day, the parcels of reserved coins, ingots, and test samples will remain in a chest or vault, under the joint and separate charge of the chairman and the Director of the Mint.

X

The weighings and assayings having been completed under the scrutiny of the committees, respectively, the committees will report, fully and specifically, as to the coins of each mint.

XI

And thereupon the commissioners will proceed to declare their judgment by an open vote; and a full record thereof, and of all their doings, having been engrossed by the secretary, it will be signed by all the members and delivered to the Director of the Mint, after which the board will be adjourned sine die.

The foregoing rules are subject to such modifications or alterations as a majority of the board may at any time during each annual assay deem expedient and proper.

ADOPTED BY THE ASSAY COMMISSION OF 1898

The committee (on weighing) recommends that the standard weights which are kept specifically for the use of the Assay Commission, and which are retained in possession of the Director of the Mint, be sent in December of each year by him to the Director of the Bureau of Standards, who shall have them compared with the legal standard and who shall forward them each year, under seal, to the commission with a certification of their accuracy.

UNITED STATES ASSAY COMMISSIONERS—1874–1925

[Names omitted of those not serving]

Adams, Herbert	New York, N. Y	1919
Ailworth, R. L	Eastville, Va	1919
Allen, Oscar D	Yale Scientific School, New Haven, Conn	1883
Ames, J. S	Johns Hopkins University	1906
Amidon, S. B	Wichita, Kans	1918
Anderson, W. H	Grand Rapids, Mich	1905
Andrews, E. B	Lancaster, Ohio	1880
Andrews, E. Benjamin	Brown University, Providence, R. I	1893
Apperson, S. M	Little Rock, Ark	1903
Appleton, John Howard	Brown University, Providence, R. I	1891
Armstrong, Robert B	Washington, D. C	1922, 1923
Ashbrook, William A	Member of Congress from Ohio	1908, 1910, 1915, 1918, 1919, 1920
Ashbrook, William A	Johnstown, Ohio	1922, 1924
Atherton, George W	State College, Pennsylvania	1901
Auld, Joseph	Burlington, Vt	1909
Austill, Mrs. Gloy L	Indianapolis, Ind	1923
Austin, Warren R	St. Albans, Vt	1912
Avery, Charles	Hamilton College, Clinton, N. Y	1880
Baer, George F	Reading, Pa	1896
Bailey, Charles O	Newbury, Mass	1923, 1924–1925
Bailey, Joel J	Philadelphia, Pa	1885
Bailey, J. M., jr	Sioux Falls, S. Dak	1891
Bailey, John T	Philadelphia, Pa	1895
Bancroft, Samuel, jr	Wilmington, Del	1895
Banes, Charles H	Philadelphia, Pa	1896
Barker, George F	University of Pennsylvania, Philadelphia	1884, 1890, 1892
Barnard, Frederick A. P	Columbia College, N. Y	1876
Barnet, Robert	San Francisco, Calif	1895
Barry, J. Edward	Cambridge, Mass	1920
Bartlett, Francis	Boston, Mass	1897
Barton, Edward P	Freeport, Ill	1884
Bassett, L. V	Rocky Mount, N. C	1918
Bateman, Newton	Galesburg, Ill	1878
Battelle, Mrs. John Gordon	Columbus, Ohio	1923
Beardsley, Charles	Burlington, Iowa	1878
Beatty, W. Gedney	New York, N. Y	1925
Becker, George F	United States Geological Survey, San Francisco, Calif	1888
Bell, Miller S	Milledgeville, Ga	1914, 1917
Benjamin, Marcus	Smithsonian Institution, Washington, D. C	1896, 1900, 1904, 1906, 1912, 1917, 1918, 1924
Benner, Dr. R. C	University of Pittsburgh, Pittsburgh, Pa	1912
Bennett, S. J	Fort Dodge, Iowa	1905
Beidler, Francis	Chicago, Ill	1900
Bigelow, William Sturgis	Boston, Mass	1909
Blair, William A	Winston-Salem, N. C	1905
Blake, William P	New Haven, Conn	1876, 1883
Bland, Richard P	Member of Congress from Missouri	1881
Bolles, Albert S	Philadelphia, Pa	1897
Bolton, H. Carrington	Trinity College, Hartford, Conn	1885
Borie, A. E	Philadelphia, Pa	1874
Bosbyshell, Oliver C	Philadelphia, Pa	1898
Boutelle, C. O	United States Coast and Geodetic Survey, Washington, D. C	1889
Boyer, Henry K	Philadelphia, Pa	1904
Braden, Eugene B	United States assay office, Helena, Mont	1896
Brady, Henry	Denver, Colo	1899
Branson, O. L	Mitchell, S. Dak	1911
Brenner, Judson	Youngstown, Ohio	1912, 1913, 1921, 1922
Brewster, Edward L	Chicago, Ill	1897
Bronson, S. A	Mansfield, Ohio	1878
Brown, James Crosby	Philadelphia, Pa	1906
Brown, S. W	North Tonawanda, N. Y	1924, 1925
Brown, William G	University of Missouri	1914
Bruner, Thomas K	Salisbury, N. C	1886
Buck, C. Elton	Wilmington, Del	1888
Buckley, Charles W	Montgomery, Ala	1880
Bullitt, William C	Philadelphia, Pa	1901
Burchard, Horatio C	Ex-Director of the Mint, Freeport, Ill	1894, 1899, 1901, 1903
Burdick, Francis M	Cornell University, Ithaca, N. Y	1889
Burgess, George K	Bureau of Standards	1924, 1925
Burlingame, E. E	Denver, Colo	1887
Burnett, Henry	Paducah, Ky	1896
Burnham, George, jr	Philadelphia, Pa	1919
Burns, Thomas P	United States Subtreasury, San Francisco, Calif	1908

Butler, William [1]	United States district judge for eastern district of Pennsylvania	1880, 1882, 1883, 1884, 1885, 1886, 1887, 1888, 1889, 1890, 1891, 1892, 1893, 1895, 1897, 1898
Bynum, William D	Muskogee, Okla	1897, 1909
Cadwalader, John [1]	United States district judge for eastern district of Pennsylvania	1874, 1875, 1876, 1877, 1878
Cadwalader, John	Philadelphia, Pa	1896
Callan, Mrs. Robert E	Fort Monroe, Va	1925
Campbell, J. W	Fort Dodge, Iowa	1908
Cannon, Henry W.[1]	Comptroller of the Currency	1885
Cannon, Henry W	New York, N. Y	1891, 1892
Capper, Arthur	United States Senator from Kansas	1920
Carter, Thomas H	Member of Congress from Montana	1891
Cauldwell, J. A	Wilkes-Barre, Pa	1909
Chace, A. B	Providence, R. I	1906
Chace, Jonathan	Senator from Rhode Island	1885
Chadburne, Paul A	Williamstown, Mass	1882
Chamberlain, Joshua L	Bowdoin College, Maine	1877
Chamberlin, T. C	Beloit, Wis	1886
Chandler, Charles F	Columbia College, New York	1886, 1897
Chandler, William H	Lehigh University, Bethlehem, Pa	1876, 1877, 1879, 1883, 1892
Chazal, P. E	Charleston, S. C	1887
Chester, Albert H	Hamilton College, Clinton, N. Y	1884
Child, H. W	Helena, Mont	1909
Childs, George W	Philadelphia, Pa	1875, 1882
Church, Edwin S	Akron, Ohio	1912
Church, John A	Prescott, Ariz	1886
Clarke, F. W	United States Geological Survey, Washington, D. C	1879, 1916
Cobb, Calvin	Boise, Idaho	1900
Cole, Cyrenus	Cedar Rapids, Iowa	1904
Coleman, H. Dudley	New Orleans, La	1912
Comings, George R.[1]	Assayer, United States assay office, New York	1911, 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920, 1921
Conger, Edwin H	Member of Congress from Iowa	1890
Conger, Kenyon B	Irvington, N. Y	1915
Cook, George H	Rutgers College, New Brunswick, N. J	1889
Cooper, Charles E	Oil City, Pa	1898
Coppée, Henry	Lehigh University, Bethlehem, Pa	1874, 1880
Cornwall, H. B	College of New Jersey, Princeton	1884
Cotton, Mrs. C. C	Elwood, Ind	1925
Crawford, George L	Cleveland, Ohio	1925
Cunningham, David	Cadiz, Ohio	1910
Cunningham, J. W	Boise, Idaho	1893
Curtis, Charles S	Kansas City, Mo	1923
Daniels, Edward	(Ex-State geologist of Wisconsin), Virginia	1880
Darlington, Joseph G	Philadelphia, Pa	1904
Darrow, Geo. P	Member of Congress from Pennsylvania	1919
Davidson, George	United States Coast and Geodetic Survey, San Francisco, Calif	1885
Davis, L. Clarke	Philadelphia, Pa	1894
Dawes, Charles G.[1]	Comptroller of the Currency	1899, 1900
Dern, George H	Salt Lake City, Utah	1920
Deshler, John G	Columbus, Ohio	1893
Devereux, J. H	New York City	1924
Devereux, Walter B	Aspen, Colo	1886
Dill, C. C	Member of Congress from Washington	1916
Dodge, Francis S	Paymaster General, United States Army	1906
Dodge, Henry L	San Francisco, Calif	1886
Donaldson, Thomas	Philadelphia, Pa	1879, 1880, 1881, 1882, 1883
Dougherty, Hugh	Indianapolis, Ind	1915
Dowd, W. C	Charlotte, N. C	1906
Drake, Luther	Omaha, Nebr	1910
Drane, Frank P	Charlotte, N. C	1914
Drown, Thomas M	Massachusetts Institute of Technology, Boston	1886
Drown, Thomas M	Lehigh University, South Bethlehem, Pa	1896
Dudley, Charles B	Altoona, Pa	1888, 1899
Dudley, William L	Nashville, Tenn	1887
Duffield, W. W	Coast and Geodetic Survey, Washington, D. C	1896
Duggan, William E	Durango, Colo	1922
Earle, George H., jr	Philadelphia, Pa	1906
Eastwick, Geoge S	New Orleans, La	1887
Eckels, George M	Chicago, Ill	1913
Eckels, James H.[1]	Comptroller of the Currency	1894, 1895, 1896, 1897
Eckfeldt, Frederick	Bureau of Mint, Washington, D. C	1881
Edwards, J. H	Washington, D. C	1904
Egleston, Thomas	Columbia College, New York	1878, 1885
Ehle, Mrs. Frank	Bluffton, Ind	1924
Eldredge, J. U., jr	Ogden, Utah	1922
Elliott, E. B	Treasury Department, Washington, D. C	1874, 1875, 1876, 1877
Ellsworth, James W	Chicago, Ill	1894
Elverson, James	Philadelphia, Pa	1899
Emerson, Isaac E	Baltimore, Md	1919
Endlich, Gustav A	Reading, Pa	1897
Eoff, Alfred	Boise, Idaho	1892
Evans, Nelson F	Philadelphia, Pa	1891
Evans, Powell	Philadelphia, Pa	1914
Fairbank, Mrs. Kellogg	Chicago, Ill	1920
Farrar, Cirault	New Orleans, La	1894

[1] Ex officio (sec. 3547, Rev. Stat.).

Field, Wm. B. Osgood	New York City	1921
Fischer, Louis A	Bureau of Standards, Washington, D. C	1905, 1911, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1920, 1921
Fisher, Daniel W	Hanover College, Hanover, Ind	1890
Fisher, Horatio G	Member of Congress from Pennsylvania	1882
Fitzpatrick, Chas. R	Warrenton, Ga	1913
Folwell, William W	University of Minnesota, Minneapolis	1890
Foster, D. N	Fort Wayne, Ind	1893
Foster, Sidney A	Des Moines, Iowa	1907
Francis, D. R	St. Louis, Mo	1895
Franklin, E. C	Leland Stanford University, California	1907
Franklin, Nelson	Washington, D. C	1925
Fraser, James E	New York City	1921
Frazier, B. W	Lehigh University, Bethlehem, Pa	1886
Freeman, John R	Providence, R. I	1924
Fristoe, E. T	Columbian University, Washington, D. C	1881, 1883, 1885
Funk, A. B	Spirit Lake, Iowa	1899
Garretson, George A	Cleveland, Ohio	1892
Genth, F. A	Philadelphia, Pa	1887
Gibson, Duncan	Lexington, Ky	1917
Gibson, George Rutledge	New York, N. Y	1892
Gilbert, Seymour P	Bloomfield, N. J	1921
Goodwin, H. M	Boston, Mass	1904
Gould, D. A	Harvard University, Cambridge, Mass	1891
Graham, John M	Rome, Ga	1921
Granberg, H. O	Oshkosh, Wis	1916, 1917
Groff, H. C	Victor, Mont	1915
Guild, Frank M	Tucson, Ariz	1901
Hackett, George B	Vicksburg, Miss	1924
Hague, Arnold	United States Geological Survey, Washington, D. C	1887
Hall, Edward	Lyon Mountain, N. Y	1889
Hall, George W	Philadelphia, Pa	1884
Hallock, William	New York, N. Y	1904
Hammond, Andrew B	Missoula, Mont	1892
Hamlin, Charles S	Boston, Mass	1903
Hanchett, Benton S	Grand Rapids, Mich	1905
Hanna, George B	United States assay office, Charlotte, N. C	1885
Harden, E. W	Chicago, Ill	1900, 1901, 1903, 1908
Hardwick, Thomas W	Member of Congress from Georgia	1911
Hardy, John	Member of Congress from New York	1884
Harris, Isham G	Senator from Tennessee	1887
Harrison, Russell B	Assayer, United States assay office, Helena, Mont	1880, 1881
Harrison, George L., jr	Philadelphia, Pa	1908
Hart, John W	Rigby, Idaho	1922
Haskin, John B	New York, N. Y	1879
Hasler, Charles E	Olney, Ill	1916
Hawes, R. S	St. Louis, Mo	1915
Hay, S. M	Oshkosh, Wis	1893
Hazeltine, A. J	Warren, Pa	1899, 1913
Heck, John W	Jersey City, N. J	1919, 1921
Henderson, J. M	Columbus, Ohio	1911, 1916, 1920, 1921
Hepburn, A. B.[1]	Comptroller of the Currency	1893
Hewston, George	San Francisco, Calif	1875
Hilgard, J. E	United States Coast and Geodetic Survey, Washington, D. C	1874, 1875, 1877, 1879, 1881, 1882, 1883, 1884
Hill, E. J	House of Representatives (Connecticut)	1900
Hillebrand, W. F	Bureau of Standards, Washington, D. C	1918
Holbrook, Francis N	El Paso, Tex	1887
Horsford, E. N	Cambridge, Mass	1889
Hough, A. S	Jacksonville, Fla	1923
Houser, Daniel M	St. Louis, Mo	1891
Howe, Henry M	Boston, Mass	1886
Howe, James Lewis	Washington and Lee University, Lexington, Va	1907, 1910
Hulett, G. A., Dr	Princeton University	1906
Ingham, Harvey	Des Moines, Iowa	1906
James, William F	Salt Lake City, Utah	1893
Jamison, B. K	Philadelphia, Pa	1895
Janin, Louis	San Francisco, Calif	1887
Jenkins, Thomas E	Louisville, Ky	1875
Jennings, Hennen	Washington, D. C	1914
Jewett, Eliot C	Assayer, United States assay office, St. Louis, Mo	1890
Johnson, Eastman	New York, N. Y	1884
Johnston, A. R	St. George, S. C	1919, 1920, 1922, 1924, 1925
Johnston, Joseph F	Senator from Alabama	1911
Jones, A. M	Chicago, Ill	1893
Jones, John P	Senator from Nevada	1874, 1890
Judah, Mrs. John M	Indianapolis, Ind	1922
Judson, H. P	University of Chicago	1903
Keehn, Roy D	Chicago, Ill	1918
Keiser, Edward H., Dr	St. Louis, Mo	1910
Kelley, J. G	Denver, Colo	1883
Kelley, John W	Portsmouth, N. H	1907
Kelly, Milton	Boise, Idaho	1884
Kennedy, John S	Corning, N. Y	1906
Kent, Charles W	University of Virginia, Charlottesville	1915
Kerfoot, L. S	United States assay office, Seattle, Wash	1908
Kimball, James P	Ex-director of the Mint, Red Lodge, Mont	1895, 1911
Kinnicutt, Leonard A., Dr	Worcester, Mass	1905
Knox, Frank	Salt Lake City, Utah	1907

[1] Ex-officio (sec. 3547, Rev. Stat.).

Knox, John J.[1]	Comptroller of the Currency	1874, 1875, 1876, 1877, 1878, 1879, 1880, 1881, 1882, 1883, 1884
Knox, John Jay	New York, N. Y	1890
Kopp, Arthur W	Ex-member of Congress from Wisconsin	1912, 1915
Kountze, Charles T	Omaha, Nebr	1912
Kunz, George F	New York, N. Y	1907, 1918
Lacey, Edward S	Member of Congress from Michigan	1885
Lacey, Edward S.[1]	Comptroller of the Currency	1890, 1891, 1892
Langley, John W	Schools of Applied Science, Cleveland, Ohio	1895
Lattimore, S. A	University of Rochester, N. Y	1879, 1900
Lawson, Andrew C	University of California, Berkeley, Calif	1916
Lawton, Israel	Oakland, Calif	1893
Lawyer, W. P	Bureau of the Mint, Washington, D. C	1882, 1883, 1884, 1885, 1886, 1887, 1888
Leach, Frank A	Oakland, Calif	1891
Leche, Edgar T	New Orleans, La	1910
Le Conte, John L	Philadelphia, Pa	1874
Leech, Edward O	Ex-Director of the Mint, New York, N. Y	1896
Leffman, Henry	Philadelphia, Pa	1889
Leisenring, A. W	Mauch Chunk, Pa	1877
Levitt, Albert	George Washington University	1921
Lewis, Fred E	Member of Congress from Pennsylvania	1914
Lilly, William	Mauch Chunk, Pa	1890
Linn, Talfourd P	Columbus, Ohio	1894
Liveright, Frank I	Newark, N. J	1922
Loevinger, Ludwig	White Lake, S. Dak	1904
Long, John G	St. Augustine, Fla	1893
Lowndes, Tasker G	Cumberland, Md	1922
Luedeking, Charles	St. Louis, Mo	1904
Mallet, J. W	University of Virginia, Charlottesville	1886, 1888, 1896
Manning, James H	Albany, N. Y	1909, 1910, 1911, 1912, 1913
Marshall, John	University of Pennsylvania, Philadelphia	1898
Martin, Henry T	Albany, N. Y	1886
Mason, Andrew	United States assay office, New York	1874, 1894, 1897
Mason, William P	Rensselaer Polytechnic Institute, Troy, N. Y	1896
Mathews, John A	Syracuse, N. Y	1900, 1905, 1911
Matson, Francis G	Washington, D. C	1925
Mayer, Alfred M	Stevens Institute, Hoboken, N. J	1888
McCaughey, William J	Washington, D. C	1909
McClintock, Jonas R	Pittsburgh, Pa	1876
McCracken, C. L	Johnstown, Ohio	1919
McCreary, James B	Member of Congress from Kentucky	1886
McDonald, Charles S	Sioux Falls, S. Dak	1912
McEldowney, A. W	Pittsburgh, Pa	1925
McIntyre, George C	Omaha, Nebr	1919
McKean, W. V	Philadelphia, Pa	1884
McKinley, William B	Member of Congress from Illinois	1908, 1910
McLain, C. A	Harvard University	1921, 1923
McNeil, John L	Durango, Colo	1906, 1908, 1915, 1919, 1924
McPherson, D. A	Deadwood, S. Dak	1910
McPherson, J. B.[1]	Judge Eastern District of Pennsylvania	1900
McMichael, Morton	Philadelphia, Pa	1876
Mears, Leverett	Williams College, Williamstown, Mass	1898, 1908, 1909
Mendenhall, C. E	University of Wisconsin	1907
Mendenhall, T. C	Superintendent United States Coast and Geodetic Survey, Washington, D. C	1890
Merrick, J. M	Boston, Mass	1874, 1875
Merrill, George P	Washington, D. C	1919, 1921, 1922, 1923
Merrill, Owen	Enosburg Falls, Vt	1907
Merritt, E	Cornell University, Ithaca, N. Y	1907
Meservey, Stillman T	Fort Dodge, Iowa	1903
Metten, G. R	Helena, Mont	1891
Miller, Anson H	Fremont, Ohio	1880, 1881
Miller, Thomas B	Helena, Mont	1900
Mills, William W	Marietta, Ohio	1899
Mitchell, Henry	Roxbury, Mass	1890
Mitchell, S. Weir	Philadelphia, Pa	1909
Mitchelson, J. C	Tariffville, Conn	1901
Moore, Charles	Washington, D. C	1922
Moore, C. W	Boise, Idaho	1891
Moore, Waldo C	Lewisburg, Ohio	1912
Morcom, E. D	Sioux Falls, S. Dak	1917
More, Fred	Charleston, Ill	1910
Morfit, Clarence	New York, N. Y	1903
Morgan, Leonard P	Philadelphia, Pa	1914, 1915
Morgan, William Gerry	Washington, D. C	1922, 1923, 1924
Morley, Edward W	Hudson, Ohio	1875
Morris, Richard P	Salt Lake City, Utah	1919
Morton, Henry	Stevens Institute, Hoboken, N. J	1889
Moyle, James H	Salt Lake City, Utah	1916
Munford, Mrs. B. B	Richmond, Va	1920
Munroe, Charles E	United States Naval Academy, Annapolis, Md	1882
Munroe, Charles E	United States torpedo station, Newport, R. I	1892
Munroe, Charles E	Columbian University, Washington, D. C	1895
Munson, George C	Assayer, United States Mint, Denver, Colo	1889
Nason, Henry B	Rensselaer Polytechnic Institute, Troy, N. Y	1884
Newbury, Spencer B	Cornell University, Ithaca, N. Y	1887
Newell, Edward T	New York, N. Y	1919
Newhall, W. Mayo	San Francisco, Calif	1892
Nicholson, Frank	St. Louis, Mo	1888

[1] Ex officio (sec. 3547, Rev. Stat.).

Norwood, T. M	Member of Congress from Georgia	1888
Noyes, W. A	Bureau of Standards, Washington, D. C	1906
O'Neil, Joseph H	Boston, Mass	1918, 1920
Ordway, John M	Tulane University, New Orleans, La	1888
Owens, Wm. O	U. S. A. (retired), Washington, D. C	1915
Packard, Jasper	New Albany, Ind	1892
Page, Calvin	Portsmouth, N. H	1919
Page, Carroll S	Senator from Vermont	1910
Pancoast, Joseph	Philadelphia, Pa	1875
Parker, Richard A	Denver, Colo	1925
Patterson, C. Stuart	Philadelphia, Pa	1898
Pavey, Charles W	Springfield, Ill	1891
Payson, Lewis E	Member of Congress from Illinois	1883
Peirce, C. S	United States Coast and Geodetic Survey, Milford, Pa	1888
Pellew, Charles E	New York, N. Y	1888
Pepper, William	University of Pennsylvania, Philadelphia	1882
Perkins, George D	Sioux City, Iowa	1904
Perkins, Henry Cleveland	Washington, D. C	1907
Perrault, Joseph	Boise, Idaho	1912
Perry, Arthur L	Williams College, Williamstown, Mass	1894
Perry, John A	Southport, Conn	1900
Peters, Edward D., Dr	Cambridge, Mass	1910
Pettee, William H	University of Michigan, Ann Arbor	1889
Phelan, Joseph C	Lynn, Mass	1921
Phelan, Michael F	Member of Congress from Massachusetts	1919
Pittman, Vail	Tonopah, Nev	1919
Prescott, Albert B	University of Michigan, Ann Arbor	1885
Price, Thomas	San Francisco, Calif	1877, 1890
Prime, Frederick	Philadelphia, Pa	1894
Pritchett, Henry S	United States Coast and Geodetic Survey, Washington, D. C	1898, 1899, 1900, 1901
Puckett, W. J	Denver, Colo	1895
Pumpelly, Raphael	United States Geological Survey, Newport, R. I	1888
Putnam, John P	Boston, Mass	1877
Quarles, J. A	Washington and Lee University, Lexington, Va	1894
Quintero, Lamar C	New Orleans, La	1895
Rankin, S. B	South Charleston, Ohio	1904
Raymond, Rossiter W	New York, N. Y	1885
Reed, Byron	Omaha, Nebr	1890
Rees, John K.	Columbia University, New York	1898
Remsen, Ira	Johns Hopkins University, Baltimore, Md	1881, 1886, 1897
Reyburn, John E	House of Representatives (Pennsylvania)	1907
Reynolds, Mrs. Katharine S	Winston-Salem, N. C	1921
Rich, E. H	Fort Dodge, Iowa	1900
Richards, Joseph W	Lehigh University, Bethlehem, Pa	1897
Richards, Robert H	Massachusetts Institute of Technology, Boston	1889
Richardson, Clifford	New York, N. Y	1903
Richardson, William A	United States Court of Claims, Washington, D. C	1883
Richey, Zina	Yankton, S. Dak	1912
Ricketts, P. de P	Columbia College, New York	1881, 1883, 1899
Ridgeley, William B.[1]	Comptroller of the Currency	1903, 1906
Ringsrud, A. O	Elk Point, S. Dak	1907
Riordan, Daniel J	Member of Congress from New York	1912
Riordan, Joseph A	Harrison, N. J	1919
Rising, W. B	University of California	1903, 1906
Roberts, Ellis H	Treasurer of the United States	1905
Roberts, George E	New York City, ex-Director of the Mint	1916
Rogers, Robert E	Philadelphia, Pa	1874, 1875, 1876, 1877, 1878, 1879
Rose, John M	Member of Congress from Pennsylvania	1920
Roseerans, William S	Member of Congress from California	1882
Rosenthal, Benjamin J	Chicago, Ill	1916
Rosewater, E	Omaha, Nebr	1897
Rothert, Hugo C	Huntingburg, Ind	1915
Root, George M	Sioux Falls, S. Dak	1909
Rounds, Will H	Sioux Fall, S. Dak	1918
Rourke, C. D	Urbana, Ill	1911
Rublee, Horace	Milwaukee, Wis	1893
Russell, Charles J	Burlington, Vt	1908
Russell, Frank B	Louisville, Ky	1923
Sackett, William A	Saratoga Springs, N. Y	1890
Salom, Pedro G	Philadelphia, Pa	1883
Scheeline, Harry Hall	Reno, Nev	1920
Schirmer, Jacob F. L	Assayer, United States mint, Denver, Colo	1875
Shafroth, John F	United States Senator from Colorado	1914
Shafroth, William	Denver, Colo	1917
Shaler, N. S	Harvard College, Cambridge, Mass	1885
Sharp, E. R	Columbus, Ohio	1905, 1906
Sharpe, Mrs. B. C	Greensboro, N. C	1922
Sheafer, P. W	Pottsville, Pa	1879
Shepard, Irwin	Winona, Minn	1891
Sherman, John, jr	Washington, D. C	1876
Shields, B. G.[1]	Assayer, U. S. Assay Office, New York	1922, 1923, 1924, 1925
Shinn, Owen Louis, Dr	University of Pennsylvania, Philadelphia	1907, 1910, 1911, 1912, 1913, 1914, 1915
Shinn, Frank	Columbus, Ohio	1908
Shup, Frank L	Newton, Ill	1914
Simpson, Kenneth M	San Francisco, Calif	1918
Smith, Albert L	Helena, Mont	1913

[1] Ex officio (sec. 3547, Rev. Stat.).

Smith, Carroll E	Syracuse, N. Y	1879
Smith, C. P	Burlington, Vt	1904
Smith, Edgar F	University of Pennsylvania, Philadelphia	1895, 1901, 1902, 1903, 1904, 1905
Smith, Joseph W	Philadelphia, Pa	1913
Smyth, George A	Vermont University, Burlington	1879
Snowden, A. Loudon	Philadelphia, Pa	1878, 1879, 1897, 1899
Sparkman, S. M	Member of Congress from Florida	1897
Spinney, L. B	Iowa State College	1914
Steele, Edward T	Philadelphia, Pa	1881
Stevenson, Andrew	Columbus, Ohio	1896
Stewart, G. W., Dr	State University, Iowa City, Iowa	1912
Stoek, H. H	Seranton, Pa	1899
Stone, Charles W	Member of Congress from Pennsylvania	1896, 1898
Stotesbury, Edward T	Philadelphia, Pa	1903, 1905
Stratton, S. W., Dr	Massachusetts Institute of Technology	1901, 1902, 1903, 1904, 1922, 1923
Swasey, Ambrose	Cleveland, Ohio	1909, 1913, 1922, 1924
Taggart, Walter T	University of Pennsylvania	1922, 1924, 1925
Tatem, B. H	Helena, Mont	1904
Taylor, B. F	New Orleans, La	1874, 1883
Thomas, Arthur L	Salt Lake City, Utah	1924
Thomas, Douglas H	Baltimore, Md	1896
Thompson, J. Whitaker	United States District Judge for Eastern District of Pennsylvania	1919
Thompson, O. W	Vermilion, S. Dak	1905
Tiffany, J. Burr	New York, N. Y	1909
Tittmann, Otto H	United States Coast and Geodetic Survey, Washington, D. C	1901
Torrey, Herbert Gray [1]	Assayer, United States Assay Office, New York	1874, 1875, 1876, 1877, 1878, 1880, 1881, 1882, 1883, 1884, 1885, 1886, 1887, 1888, 1889, 1890, 1891, 1892, 1893, 1894, 1895, 1896, 1897, 1898, 1899, 1900, 1901, 1902, 1903, 1904, 1905, 1906, 1907, 1908, 1909, 1910.
Traey, Charles	Member of Congress from New York	1889
Traylor, Samuel W	Allentown, Pa	1920
Trenholm, William L. [1]	Comptroller of the Curreney	1887
Truitt, Warren	Moscow, Idaho	1905
Tuttle, David K	Melter and refiner, United States mint, Carson, Nev	1888
Tuttle, Franklin E	State University, Lexington, Ky	1916
Twiggs, John W	San Francisco, Calif	1878, 1885
Tyler, George F	Philadelphia, Pa	1884
Underwood, R. A	Plainview, Tex	1920
Vance, Zebulon B	Senator from North Carolina	1888
Vaughan, G. E	Lynchburg, Va	1919, 1920
Vaux, George, jr	Bryn Mawr, Pa	1913
Venable, F. P	University of North Carolina	1901
Vestal, Albert H	Member of Congress from Indiana	1920, 1921, 1922, 1923, 1924, 1925
Vineent, H. B	McConnellsville, Ohio	1904
Vineent, Webb	Fort Dodge, Iowa	1901
Vinson, A. E	University of Arizona	1914
Voorheis, E. C	Sutter Creek, Calif	1904
Wainwright, J. H	New York	1895
Walker, Arthur L., Dr	Columbia University, New York	1911
Walker, Charles M	Indianapolis, Ind	1878
Walker, Francis A	Massachusetts Institute of Technology, Boston, Mass	1890
Walter, John D	Sparta, Ga	1912
Waring, Robert P	Assayer, United States assay office, Charlotte, N. C	1889
Warner, Willard	Tecumseh, Ala	1879
Webster, A. G	Clark University, Worcester, Mass	1903
Weed, George S	Plattsburg, N. Y	1887
Weiss, A. C	Duluth, Minn	1918
Wells, Horace L., Dr	Yale University, New Haven, Conn	1911
Welsh, Henry D	Philadelphia, Pa	1894
Wharton, Joseph	Philadelphia, Pa	1876, 1898, 1904
Wheeler, W. D	Augusta, Mont	1890
Wheelock, Joseph A	St. Paul, Minn	1880
White, I. C	University of West Virginia, Morgantown, W. Va	1892
White, Stephen M	Senator from California	1897
Whitehead, Cabell	Assayer, Bureau of the Mint, Washington, D. C	1891, 1893, 1894, 1895, 1896, 1897, 1898, 1899, 1900, 1901
Wild, Henry F	Asssayer, United States assay office, Boise, Idaho	1888
Wilder, John T	Chattanooga, Tenn	1892
Wilkie, John E	Washington, D. C	1909
Wileox, E. S	Peoria, Ill	1891
Wilson, P. B	Baltimore, Md	1893
Williams, David	Webster, S. Dak	1903
Williams, Gardner F	Washington, D. C	1909
Williams, John Skelton [1]	Comptroller of the Curreney	1916, 1920
Willson, T. Edgar	New York, N. Y	1925
Winston, George T	University of North Carolina, Chapel Hill, N. C	1894
Wiswell, Andrew P	Ellsworth, Me	1893
Winchell, N. H	Minneapolis, Minn	1887
Winslow, Charles S	Chicago, Ill	1905
Wood, Ira W	Member of Congress from New Jersey	1909
Woodside, John W	Philadelphia, Pa	1894
Wright, Arthur W	Yale College, New Haven, Conn	1887
Yates, Henry W	Omaha, Nebr	1892
Yeaman, M. B	Idaho Falls, Idaho	1924
Yost, Jacob	Member of Congress from Virginia	1899
Young, Stephen J	Brunswick, Me	1890
Zerbe, Farran	Tyrone, Pa	1909, 1923

[1] Ex officio (see. 3547, Rev. Stat.).